

Summary statistics - quantitative results

(Groups: measurement principle)

Filter: minimal size of the groups n = 5

EQA round: TE1/22 - Trace Elements

Deadline: 08.03.2022

RoM = robust average	AV = assigned value	Dmax = acceptable percent difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	RV = reference value	UL = upper limit
Ntot = total number of the participants	CVE = consensus value from experts	Neva = number of evaluated participants
Nout = number of results excluded before calculation	CVP = consensus value from all participants	Nsuc = number of successful participants
	CVPG = consensus value from participants groups	Srel = success (relative)
	U _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability												
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
Set 1 (plasma)														
(361) Al - plasma														
Samples and groups [µmol/L] 1 1 0 0,00														
Sample A1		0,990			1		CVE	0,46	0,041	25%	0,345	0,575	1	0 0,00
Other					1	0							1	
							1x 2							
Sample B1		1,55			1		CVE	1,1	0,085	25%	0,825	1,38	1	0 0,00
Other					1	0							1	
							1x 2							
(357) Cr - plasma														
Samples and groups [nmol/L] 1 1 1 100%														
Sample A1		74,6			1		CVE	72,1	6,3	25%	54	90,2	1	1 100%
Other					1	0							1	
							1x 2							
Sample B1		475			1		CVE	454	28	25%	340	568	1	1 100%
Other					1	0							1	
							1x 2							
(351) Cu - plasma														
Samples and groups [µmol/L] 19 19 14 74%														
Sample A1		13,5	2,0	15	19		CVE	14,7	0,71	25%	11	18,4	19	16 84%
(2) ET-AAS		14,7	0,52	3,5	5	0							5	
(5) Spectrophotometry		13,0	2,3	18	11	0							11	
Other					3	0							3	
							3x 1							
Sample B1		20,3	3,5	17	19		CVE	22,7	0,98	25%	17	28,4	19	14 74%
(2) ET-AAS		22,6	0,74	3,3	5	0							5	
(5) Spectrophotometry		19,2	3,9	21	11	0							11	
Other					3	0							3	
							3x 1							
(359) Mg - plasma														
Samples and groups [mmol/L] 1 1 1 100%														
Sample A1		0,620			1		CVE	0,642	0,029	25%	0,481	0,803	1	1 100%
Other					1	0							1	
							1x 1							
Sample B1		0,740			1		CVE	0,724	0,029	25%	0,543	0,905	1	1 100%
Other					1	0							1	
							1x 1							
(352) Mn - plasma														
Samples and groups [nmol/L] 2 2 1 50%														
Sample A1		31,0	20	66	2		CVE	14,6	1,8	38%	9,05	20,2	2	1 50%
Other					2	0							2	
							2x 2							
Sample B1		236	52	22	2		CVE	206	16	25%	154	258	2	1 50%
Other					2	0							2	
							2x 2							
(355) Se - plasma														
Samples and groups [µmol/L] 3 3 3 100%														
Sample A1		1,38	0,12	8,8	3		CVE	1,34	0,067	25%	1	1,68	3	3 100%
Other					3	0							3	
							2x 2, 1x 4							
Sample B1		2,46	0,33	14	3		CVE	2,42	0,12	25%	1,81	3,03	3	3 100%
Other					3	0							3	
							2x 2, 1x 4							
(350) Zn - plasma														
Samples and groups [µmol/L] 17 17 16 94%														
Sample A1		24,3	1,6	6,6	17		CVE	24,4	1,0	25%	18,3	30,5	17	16 94%
(1) F-AAS		24,1	1,9	7,7	8	0							8	
(5) Spectrophotometry		24,2	1,8	7,4	9	0							9	
Sample B1		29,4	2,1	7,1	17		CVE	29,3	1,1	25%	21,9	36,7	17	16 94%
(1) F-AAS		29,2	1,9	6,6	8	0							8	
(5) Spectrophotometry		29,7	2,4	8,3	9	0							9	

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Test	[unit]						Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
Set 2 (blood)														
(353) Cd - blood	[nmol/L]				2							2	2	100%
Samples and groups														
Sample A2		42,3	3,6	8,5	2	CVE	44,3	2,2	25%	33,2	55,4	2	2	100%
Other					2	0						2		
Sample B2		81,4	2,5	3,1	2	CVE	83,1	3,8	25%	62,3	104	2	2	100%
Other					2	0						2		
							1x 2, 1x 7							
							1x 2, 1x 7							
(356) Hg - blood	[nmol/L]				2							2	1	50%
Samples and groups														
Sample A2		14,0	0,43	3,1	2	CVE	12,5	1,0	25%	9,37	15,7	2	2	100%
Other					2	0						2		
Sample B2		104	13	12	2	CVE	87,2	6,0	25%	65,4	109	2	1	50%
Other					2	0						2		
							1x 2, 1x 99							
							1x 2, 1x 99							
(339) Mn - blood	[nmol/L]				1							1	1	100%
Samples and groups														
Sample A2		325			1	CVE	333	18	25%	249	417	1	1	100%
Other					1	0						1		
Sample B2		475			1	CVE	479	24	25%	359	599	1	1	100%
Other					1	0						1		
							1x 2							
							1x 2							
(354) Pb - blood	[nmol/L]				6							6	5	83%
Samples and groups														
Sample A2		316	22	7,0	6	CVE	329	15	25%	246	412	6	5	83%
Other					6	0						6		
Sample B2		2470	100	4,2	6	CVE	2600	94	25%	1950	3250	6	6	100%
Other					6	0						6		
							4x 2, 1x 3, 1x 7							
							4x 2, 1x 3, 1x 7							
Set 3 (urine)														
(348) Al - urine	[µmol/L]				1							1	1	100%
Samples and groups														
Sample A3		0,385			1	CVE	0,423	0,044	25%	0,317	0,529	1	1	100%
Other					1	0						1		
Sample B3		1,96			1	CVE	2,11	0,16	25%	1,58	2,64	1	1	100%
Other					1	0						1		
							1x 7							
							1x 7							
(343) Cd - urine	[nmol/L]				2							2	2	100%
Samples and groups														
Sample A3		19,9	0,90	4,5	2	CVE	19	0,89	25%	14,2	23,8	2	2	100%
Other					2	0						2		
Sample B3		77,3	1,2	1,6	2	CVE	71,6	3,4	25%	53,7	89,5	2	2	100%
Other					2	0						2		
							1x 2, 1x 7							
							1x 2, 1x 7							
(347) Cr - urine	[nmol/L]				3							3	3	100%
Samples and groups														
Sample A3		163	8,2	5,0	3	CVE	165	7,7	25%	123	207	3	3	100%
Other					3	0						3		
Sample B3		561	18	3,2	3	CVE	587	27	25%	440	734	3	3	100%
Other					3	0						3		
							2x 2, 1x 7							
							2x 2, 1x 7							
(341) Cu - urine	[µmol/L]				7							7	7	100%
Samples and groups														
Sample A3		0,931	0,13	14	7	CVE	0,875	0,031	31%	0,603	1,15	7	7	100%
Other					7	0						7		
Sample B3		1,58	0,15	9,5	7	CVE	1,51	0,044	25%	1,13	1,89	7	7	100%
Other					7	0						7		
							3x 1, 2x 2, 1x 5, 1x 7							
							3x 1, 2x 2, 1x 5, 1x 7							
(346) Hg - urine	[nmol/L]				2							2	1	50%
Samples and groups														
Sample A3		19,1	1,6	8,6	2	CVE	23,9	2,5	25%	17,9	29,9	2	1	50%
Other					2	0						2		
Sample B3		77,0	3,2	4,2	2	CVE	85,2	7,0	25%	63,9	107	2	2	100%
							1x 2, 1x 99							

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Test	[unit]						Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(346) Hg - urine	[nmol/L]				2							2	1	50%
Samples and groups														
Sample B3		77,0	3,2	4,2	2	CVE	85,2	7,0	25%	63,9	107	2	2	100%
Other					2	0						2		
						1x 2, 1x 99								
(362) I - urine	[µmol/L]				1							1	1	100%
Samples and groups														
Sample A3		0,500			1	CVE	0,482	0,025	25%	0,361	0,603	1	1	100%
Other					1	0						1		
						1x 7								
Sample B3		1,03			1	CVE	1,06	0,043	25%	0,795	1,33	1	1	100%
Other					1	0						1		
						1x 7								
(342) Mn - urine	[nmol/L]				2							2	1	50%
Samples and groups														
Sample A3		81,5	28	34	2	CVE	61,9	3,6	25%	46,4	77,4	2	1	50%
Other					2	0						2		
						1x 2, 1x 7								
Sample B3		203	23	12	2	CVE	207	13	25%	155	259	2	2	100%
Other					2	0						2		
						1x 2, 1x 7								
(358) Ni - urine	[nmol/L]				1							1	1	100%
Samples and groups														
Sample A3		151			1	CVE	153	10	25%	114	192	1	1	100%
Other					1	0						1		
						1x 7								
Sample B3		711			1	CVE	709	36	25%	531	887	1	1	100%
Other					1	0						1		
						1x 7								
(344) Pb - urine	[nmol/L]				2							2	2	100%
Samples and groups														
Sample A3		134	1,9	1,4	2	CVE	125	7,6	25%	93,7	157	2	2	100%
Other					2	0						2		
						1x 2, 1x 7								
Sample B3		242	5,3	2,2	2	CVE	228	9,8	25%	171	285	2	2	100%
Other					2	0						2		
						1x 2, 1x 7								
(345) Se - urine	[µmol/L]				1							1	1	100%
Samples and groups														
Sample A3		0,493			1	CVE	0,465	0,035	25%	0,348	0,582	1	1	100%
Other					1	0						1		
						1x 7								
Sample B3		1,74			1	CVE	1,7	0,089	25%	1,27	2,13	1	1	100%
Other					1	0						1		
						1x 7								
(340) Zn - urine	[µmol/L]				3							3	3	100%
Samples and groups														
Sample A3		2,12	0,19	9,2	3	CVE	2,13	0,11	25%	1,59	2,67	3	3	100%
Other					3	0						3		
						2x 1, 1x 7								
Sample B3		7,43	0,63	8,5	3	CVE	7,8	0,29	25%	5,85	9,75	3	3	100%
Other					3	0						3		
						2x 1, 1x 7								

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End of report

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